

## Attachment B

### Technical Service Provider – Training Inventory

This attachment includes four Excel spreadsheets that identify areas of proficiency that TSPs will need to deliver quality service. They also identify the NEDC courses that could be used to train TSPs, as well as non-NEDC courses and training methods that could be made available to TSPs. Finally, they identify training gaps that will need to be filled, if training is to be made available to TSPs.

Worksheet 1 is a form on which to enter data on State-level training currently available to TSPs and individuals who wish to become TSPs. You may use this form to enter information about TSP training currently available in your State. Enter the name of the course or type of training in Column 1. If the training is specific to a technical service category in Tech Reg, identify the Tech Reg technical service category the training applies to.

Worksheet 2: Page 1 lists the NEDC courses that have been identified as necessary or useful in training TSPs. Column 4 of this worksheet lists the modules of NEDC courses taken as self study that are listed as “**currently available.**” Modules delivered at the State level through either classroom or field exercises are listed as “**not established.**”

Worksheet 3: Pages 1, 2, 3, and 4 identify areas of training for which no NEDC courses are available. It also identifies a limited number of situations in which training development activity is under way.

Worksheet 4: Pages 1–13 list the technical service categories of Tech Reg. It also identifies the required proficiencies for each category of technical service, and the methods used to train NRCS employees and TSPs. Finally, it identifies situations when training development activity is under way. (*Note:* The symbol “??” identifies situations when TSP training may not be available. This column was completed based on an assumption that NRCS State specialists and field staffs would not provide training to TSPs. This assumption is consistent with the decision of Bruce Knight, articulated in a decision memo signed on November 7, 2003.)

The material in these worksheets may be useful to you in providing the information being requested in this bulletin. This information is needed for use at a TSP training summit that will be held in June.

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**Technical Service Provider (TSP) Training Inventory, State Level Training****Course or Training Activity****Type of Training <sup>1</sup>****Provider <sup>2</sup>****Other Information <sup>3</sup>**

<sup>1</sup> Classroom, Field Exercise, Self  
Study, Other (Specify)

<sup>2</sup> NRCS, SWCD, Extension, University, Other (Specify)

<sup>3</sup> Length of Training, Frequency Offered, Other (Specify)

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Technical Service Provider (TSP) Training Inventory, State Level Training

Course or Training Activity	Type of Training <sup>1</sup>	Provider <sup>2</sup>	Other Information <sup>3</sup>
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<sup>1</sup> Classroom, Field Exercise, Self Study, Other (Specify)

<sup>2</sup> NRCS, SWCD, Extension, University, Other (Specify)

<sup>3</sup> Length of Training, Frequency Offered, Other (Specify)

Technical Service Provider (TSP) Training Inventory, State Level Training

Course or Training Activity	Type of Training <sup>1</sup>	Provider <sup>2</sup>	Other Information <sup>3</sup>
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<sup>1</sup> Classroom, Field Exercise, Self Study, Other (Specify)

<sup>2</sup> NRCS, SWCD, Extension, University, Other (Specify)

<sup>3</sup> Length of Training, Frequency Offered, Other (Specify)

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Technical Service Provider (TSP) Training Inventory, State Level Training

Course or Training Activity	Type of Training <sup>1</sup>	Provider <sup>2</sup>	Other Information <sup>3</sup>
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<sup>1</sup> Classroom, Field Exercise, Self Study, Other (Specify)

<sup>2</sup> NRCS, SWCD, Extension, University, Other (Specify)

<sup>3</sup> Length of Training, Frequency Offered, Other (Specify)

**Technical Service Provider (TSP) Training Inventory, Training Development, non-NEDC TSP Training Needs or Gaps**

<b>Training Activity</b>	<b>Developer</b>	<b>Collaborators <sup>1</sup></b>	<b>Target Availability Date</b>
<b>Revised Universal Soil Loss Equation (RUSLE2)</b>			
RUSLE2, academic knowledge	CTIC	CCA of ASA	<b>not established</b>
RUSLE2, software	CTIC	CCA of ASA	<b>not established</b>
RUSLE2, field training and use	CTIC	CCA of ASA	<b>not established</b>
<b>Phosphorus Index (PI)</b>			
PI, academic knowledge	none identified		<b>not established</b>
PI, software	none identified		<b>not established</b>
PI, field training and use	none identified		<b>not established</b>
<b>Leaching Index (LI)</b>			
LI, academic knowledge	none identified		<b>not established</b>
LI, field training and use	none identified		<b>not established</b>
<b>Soil Conditioning Index (SCI)</b>			
SCI, academic knowledge	CTIC	CCA of ASA	<b>not established</b>
SCI, software	CTIC	CCA of ASA	<b>not established</b>
SCI, field training and use	none identified		
<b>Wind Erosion Prediction Process (WEPS) or WEQ</b>			
WEPS, academic knowledge	none identified		<b>not established</b>
WEPS, software	none identified		<b>not established</b>
WEPS, field training and use	none identified		<b>not established</b>
<b>NRCS Conservation Program Implementation</b>			
Knowledge of specific program requirements related to delivery of technical services (e.g. eligibility, documentation, etc.) and how programs are used to promote the installation of conservation practices & systems.	none identified		<b>not established</b>

<sup>1</sup> ?? Denotes possible collaborators to develop or deliver training

**Technical Service Provider (TSP) Training Inventory, Training Development, non-NEDC TSP Training Needs or Gaps**

<b>Training Activity</b>	<b>Developer</b>	<b>Collaborators <sup>1</sup></b>	<b>Target Availability Date</b>
<b>NRCS Progress Reporting System for TSPs</b>	none identified		<b>not established</b>
Knowledge of the TSP reporting system & ability to report progress for services delivered.			
<b>Irrigation System Design, Operation, and Maintenance</b>	none identified	IRTC, KSU Web-based learning, Community Colleges ??	<b>not established</b>
<b>Stream Channel Hydraulics &amp; Channel &amp; Streambank Stabilization</b>	none identified	Community Colleges ??	<b>not established</b>
<b>Principles of Land Shaping, Reconstruction, and Reclamation</b>	none identified	Community Colleges ??	<b>not established</b>
<b>Tillage &amp; Erosion Control Plan Development</b>	none identified		<b>not established</b>
<b>Techniques for Vegetative Land Stabilization</b>	none identified		<b>not established</b>
<b>Techniques and Practices for Sealing Reservoirs and Water Conveyance Structures</b>	none identified	USBR, Community Colleges ??	<b>not established</b>
<b>Techniques and Practices for Stabilizing Soils for Access Roads</b>	none identified		<b>not established</b>
<b>Techniques and Practices for the Design, Operation, and Maintenance of Drainage Systems</b>	none identified	NC State University ?? Community Collages ??	<b>not established</b>
A course that teaches the hydraulics and techniques of drainage water management as they relate to the design, function, and maintenance of surface and subsurface drainage systems. <b>NOTE!</b> The NEDC course "Hydrology Training Series" may include content pertinent to this need.			
<b>Surface and Groundwater Supply Development Methods</b>	none identified	Community Colleges ??	<b>not established</b>

<sup>1</sup> ?? Denotes possible collaborators to develop or deliver training

**Technical Service Provider (TSP) Training Inventory, Training Development, non-NEDC TSP Training Needs or Gaps**

<b>Training Activity</b>	<b>Developer</b>	<b>Collaborators <sup>1</sup></b>	<b>Target Availability Date</b>
<b>The Design, Operation, and Maintenance of Engineering Components of Wetland Systems</b>	none identified		<b>not established</b>
<b>Sources of Feed Management Technical Assistance</b>	none identified		<b>not established</b>
Information about local sources of feed management technical assistance.			
<b>Hydrology, Earthwork, and Soil Mechanics</b>	none identified	Community Collages ??	<b>not established</b>
A course about hydrology, soil mechanics and earthwork as they influence the construction of embankment or excavated ponds, and structures for water control. <b>NOTE!</b> The NEDC course "Hydrology Training Series" may be relevant to this need.			
<b>Principles of Irrigation Water Management</b>	none identified	IRTC, KSU Web-based learning, Community Colleges ??	<b>not established</b>
A course that teaches the principles of irrigation water management and how the NRCS practice standard for irrigation water management is used.			
<b>Open Channel Hydraulics</b>	none identified	Community Colleges ??	<b>not established</b>
A course that teaches principles of open channel hydraulics and how they influence the design & function of open channels. <b>NOTE!</b> The NEDC course "Hydrology Training Series" may include content relevant to this need.			

<sup>1</sup> ?? Denotes possible collaborators to develop or deliver training



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**Technical Service Provider (TSP) Training Inventory, Training Development, non-NEDC TSP Training Needs or Gaps**

Training Activity	Developer	Collaborators <sup>1</sup>	Target Availability Date
<b>Pipeline and Closed Conduit Hydraulics</b>  A course that teaches the principles of pipeline and closed conduit hydrology, and how hydrology influences the design and function of pipelines and other closed conduits. <b>NOTE!</b> The NEDC course "Hydrology Training Series" may include content pertinent to this need.	none identified	IRTC, CIT, Community Colleges ??	<b>not established</b>
<b>The Science and Principles of Surface Water Management</b>  A course that teaches the science and principles of surface water management. <b>NOTE!</b> The NEDC course "Hydrology Training Series" may include content pertinent to this need.	none identified		<b>not established</b>

<sup>1</sup> ?? Denotes possible collaborators to develop or deliver training

## Technical Service Provider, Tech Reg Training Inventory

Technical Service Category/Practices	Required Proficiency -----	Method(s) of Training -----		Collaborators to Develop Training for TSPs
		NRCS	TSPs	
<b>General Category</b> (apply to all technical service categories listed in Tech Reg)	Knowledge of NRCS Field Office Technical Guide (FOTG), especially conservation practice standards, Knowledge of NRCS programs and their implementation procedures, Knowledge of TSP progress reporting system, Knowledge of NRCS procedures for environmental compliance for conservation assistance, Knowledge of general principles of conservation planning.	ojt <sup>2</sup> or workshop NEDC Course 5a  ojt <sup>2</sup> or workshop  n/a <sup>1</sup>  NEDC Course 6  NEDC Course 1a	?? NEDC Course 5a  ??  ??  NEDC Course 6  NEDC Course 1a	
20				
CNMP Plan Approval Practices— 316, 322, 360, 317, 327, 328, 656, 332, 330, 340, 589A, 589C, 324, 362, 592, 386, 393, 412, 561, 422, 468, 634, 484, 590, 533, 329A, 320B, 329C, 344, 555, 557, 558, 570, 571, 585, 587, 606, 609, 600, 620, 601, 313, 359, 633, 635, 640	Knowledge of NRCS (CNMP) planning policy Title 180, Part 600.5 "Comprehensive Nutrient Management Planning Technical Assistance," plus State-Level Planner Certification, or Conservation Planning Knowledge; plus  References of past work, plus Skill in using RUSLE2, plus Skill in using WEQ or WEPS, plus Skill in using the Phosphorus Index (PI), plus Skill in using the Leaching Index (LI).	ojt <sup>2</sup> or workshop   n/a <sup>1</sup> NEDC Course 1a NEDC Course 1b n/a <sup>1</sup> ojt <sup>2</sup> or workshop ojt <sup>2</sup> or workshop ojt <sup>2</sup> or workshop ojt <sup>2</sup> or workshop	??   n/a <sup>1</sup> NEDC Course 1a ?? n/a <sup>1</sup> ?? ?? ?? ??	CTIC
38				
CNMP Plan Development— Feed Management Practices— 592	Knowledge of NRCS (CNMP) planning policy Title 180, Part 600.5 "Comprehensive Nutrient Management Planning Technical Assistance,"	ojt <sup>2</sup> or workshop	??	

ojt <sup>2</sup> or workshop =  
informal NRCS training environment

n/a <sup>1</sup> = No NRCS Training Responsibility

?? = TSP Training Not Readily Available

# Technical Service Provider, Tech Reg Training Inventory

Technical Service Category/Practices	Required Proficiency -----	Method(s) of Training -----		Collaborators to Develop Training for TSPs
		NRCS	TSPs	
	Knowledge of diet and feeding technologies and their use in modifying manure nutrient content, Ability to discuss feed management with producers during development of CNMPs, Knowledge of sources of feed-management technical assistance available in area.	NRCS Nutrient Mgt. Technical Notes 1-5  NRCS Nutrient Mgt. Technical Notes 1-5  ??	NRCS Nutrient Mgt. Technical Notes 1-5  NRCS Nutrient Mgt. Technical Notes 1-5  ??	
50				
CNMP Plan Development- Land Treatment Practices-- 322, 327, 328, 332, 330, 340, 589A, 589C, 324, 362, 386, 393, 412, 422, 603, 423, 468, 484, 329A, 329B, 329C, 344, 555, 558, 557, 570, 571, 585, 587, 606, 609, 600, 620, 601, 640.	Skill in using RUSLE2, plus Skill in using WEQ or WEPS, plus Knowledge of NRCS (CNMP) planning policy Title 180, Part 600.5 "Comprehensive Nutrient Management Planning Technical Assistance," plus Knowledge of NRCS (CNMP) policy for determining conservation planning objectives GM 180, Part 409.1 "Conservation Planning Objectives," plus Completion of the University of Tennessee CNMP training course, or Completion of NRCS-approved training that meets requirements for CNMP Certified Specialist categories.	ojt <sup>2</sup> or workshop ojt <sup>2</sup> or workshop ojt <sup>2</sup> or workshop   ojt <sup>2</sup> or workshop   n/a <sup>1</sup>  ojt <sup>2</sup> or workshop	?? ?? ??   ??   n/a <sup>1</sup>  ??	CTIC
66				
CNMP Plan Development- Manure and Wastewater Handling & Storage Practices-- 316, 360, 317, 656, 561, 634, 533, 558, 313, 359, 633, 635.	Knowledge of NRCS (CNMP) planning policy Title 180, Part 600.5 "Comprehensive Nutrient Management Planning Technical Assistance," plus Engineer's License when required by State law, plus Completion of NRCS approved training that meets requirements for CNMP Certified Specialist categories, or Completion of the University of Tennessee CNMP training course, plus	ojt <sup>2</sup> or workshop   n/a <sup>1</sup>  ojt <sup>2</sup> or workshop  n/a <sup>1</sup>	??   n/a <sup>1</sup>  ??  n/a <sup>1</sup>	

ojt <sup>2</sup> or workshop =  
informal NRCS training environment

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# Technical Service Provider, Tech Reg Training Inventory

Technical Service Category/Practices	Required Proficiency -----	Method(s) of Training -----		Collaborators to Develop Training for TSPs
		NRCS	TSPs	
78	State nutrient certification or license (when required by State regulation).			
CNMP Plan Development- Nutrient Management Practices-- 590, 633.	Skill in using RUSLE2, plus Skill in using WEQ or WEPS, plus Skill in using the Phosphorus Index (PI), plus Skill in using the Leaching Index (LI), plus Knowledge of NRCS (CNMP) planning policy Title 180, Part 600.5 "Comprehensive Nutrient Management Planning Technical Assistance," plus Knowledge of NRCS (CNMP) policy for determining conservation planning objectives GM 180, Part 409.1 "Conservation Planning Objectives," plus Completion of NRCS-approved training that meets requirements for CNMP Certified Specialist categories, or Completion of the University of Tennessee CNMP training course, plus State nutrient certification or license (when required by State regulation).	ojt <sup>2</sup> or workshop ojt <sup>2</sup> or workshop ojt <sup>2</sup> or workshop ojt <sup>2</sup> or workshop ojt <sup>2</sup> or workshop  ojt <sup>2</sup> or workshop  NEDC Course 4a NEDC Course 4b  n/a <sup>1</sup>  n/a <sup>1</sup>	?? ?? ?? ?? ??  ??  NEDC Course 4a ??  n/a <sup>1</sup>  n/a <sup>1</sup>	
98				
CNMP Plan Development- Total Plan Practices-- 316, 322, 360, 317, 327, 328, 656, 332, 330, 340, 589A, 589C, 324, 362, 592, 386, 393, 312, 561, 422, 603, 423, 468, 634, 484, 590, 533, 3129B, 329A, 329C, 344, 555, 558, 557, 570, 571,	Skill in using RUSLE2, plus Skill in using WEQ or WEPS, plus Skill in using the Phosphorus Index (PI), plus Skill in using the Leaching Index (LI), plus Knowledge of NRCS (CNMP) planning policy Title 180, Part 600.5 "Comprehensive Nutrient Management Planning Technical Assistance," plus Knowledge of NRCS (CNMP) policy for determining conservation planning objectives GM 180, Part 409.1 "Conservation Planning Objectives," plus Knowledge and skills for developing the individual technical modules of CNMPs,	ojt <sup>2</sup> or workshop ojt <sup>2</sup> or workshop ojt <sup>2</sup> or workshop ojt <sup>2</sup> or workshop ojt <sup>2</sup> or workshop  ojt <sup>2</sup> or workshop  NEDC Course 4a NEDC Course 4b,	?? ?? ?? ?? ??  ??  NEDC Course 4a NEDC Course 4b,	

ojt <sup>2</sup> or workshop =  
informal NRCS training environment

n/a <sup>1</sup> = No NRCS Training Responsibility

?? = TSP Training Not Readily Available

# Technical Service Provider, Tech Reg Training Inventory

Technical Service Category/Practices	Required Proficiency -----	Method(s) of Training -----		Collaborators to Develop Training for TSPs
		NRCS	TSPs	
585, 587, 606, 609, 600, 620, 601, 313, 359, 633, 635, 640 127	including Feed Management, Land Treatment, Manure & Wastewater Handling & Storage, Nutrient Management, Alternative Manure Treatment & Utilization, plus Completion of NRCS approved training that meets requirements for CNMP-certified specialist categories, or Completion of the Environmental Management Solutions (EMS) CNMP training course, or Completion of the University of Tennessee CNMP training course, plus State nutrient certification or license when required by State regulation. Engineer's License when required by State regulation.	NRCS Nutrient Mgt. Technical Notes 1-5, NEDC Course 7 NEDC Course 8 NEDC Course 1a NEDC Course 1b  n/a <sup>1</sup>  n/a <sup>1</sup>  n/a <sup>1</sup>  n/a <sup>1</sup>  n/a <sup>1</sup>	NRCS Nutrient Mgt. Technical Notes 1-5, NEDC Course 7 NEDC Course 8 NEDC Course 1a ??  n/a <sup>1</sup>  n/a <sup>1</sup>  n/a <sup>1</sup>  n/a <sup>1</sup>	
129				
Certified Conservation Planner	State-Level Planner Certification, or Conservation Planning, plus  Skill in using RUSLE2, Skill in using WEQ or WEPS, Skill in using the Phosphorus Index (PI), Skill in using the Leaching Index (LI), Skill in using the Soil Conditioning Index (SCI), References of past work.	n/a <sup>1</sup> NEDC Course #1a NEDC Course #1b ojt <sup>2</sup> or workshop ojt <sup>2</sup> or workshop ojt <sup>2</sup> or workshop ojt <sup>2</sup> or workshop ojt <sup>2</sup> or workshop n/a <sup>1</sup>	n/a <sup>1</sup> NEDC Course #1a ?? ?? ?? ?? ?? n/a <sup>1</sup>	
139				
Channel & Streambank Stabilization Practices-- 584, 322, 326, 500, 580.	Experience, plus References of past work, plus Professional License, plus Knowledge of Stream Channel Hydraulics & Channel & Streambank Stabilization.	n/a <sup>1</sup> n/a <sup>1</sup> n/a <sup>1</sup> ??	n/a <sup>1</sup> n/a <sup>1</sup> n/a <sup>1</sup> ??	
145				
Contaminate Reduction Control	Experience, plus References of past work, plus	n/a <sup>1</sup> n/a <sup>1</sup>	n/a <sup>1</sup> n/a <sup>1</sup>	

ojt <sup>2</sup> or workshop =  
informal NRCS training environment

n/a <sup>1</sup> = No NRCS Training Responsibility

?? = TSP Training Not Readily Available

# Technical Service Provider, Tech Reg Training Inventory

Technical Service Category/Practices	Required Proficiency -----	Method(s) of Training -----		Collaborators to Develop Training for TSPs
		NRCS	TSPs	
450, 455, 571 610	Professional License, plus Knowledge of salinity, its sources and control.	n/a <sup>1</sup> NEDC Course 8	n/a <sup>1</sup> NEDC Course 8	Under Development
151				
Cultural Resource Compliance Studies	Knowledge of Department of Interior Standards, plus Cultural Resource Training, plus  References of past work.	n/a <sup>1</sup>  NEDC Course 3a NEDC Course 3b NEDC Course 3c n/a <sup>1</sup>	n/a <sup>1</sup>  NEDC Course 3a ?? ?? n/a <sup>1</sup>	   requires workshop requires workshop
158				
Feed Management	Certification as a professional nutritionist or animal scientist, plus References of past work.	n/a <sup>1</sup>  n/a <sup>1</sup>	n/a <sup>1</sup>  n/a <sup>1</sup>	
162				
Forestry/Agroforestry Practices-- 311, 394, 490 666, 338, 562 391, 612, 660 472, 380, 650	Professional Certification, or 5 years of experience, and References of past work; or College Degree (BS+), and 1 Year Experience, and References of past work.	n/a <sup>1</sup> n/a <sup>1</sup> n/a <sup>1</sup> n/a <sup>1</sup> n/a <sup>1</sup> n/a <sup>1</sup>	n/a <sup>1</sup> n/a <sup>1</sup> n/a <sup>1</sup> n/a <sup>1</sup> n/a <sup>1</sup> n/a <sup>1</sup>	
169				
Grazing/Forages Practices-- 575, 314, 382 394, 511, 548 561, 512, 528A 550, 645, 472 644	Society for Range Management Certification, or Professional Certification, or 5 Years Experience, and References of past work, or College Degree (BS+), and References of past work.	n/a <sup>1</sup>  n/a <sup>1</sup> n/a <sup>1</sup> n/a <sup>1</sup> n/a <sup>1</sup> n/a <sup>1</sup>	n/a <sup>1</sup>  n/a <sup>1</sup> n/a <sup>1</sup> n/a <sup>1</sup> n/a <sup>1</sup> n/a <sup>1</sup>	
177				
Irrigation (Water Conveyance) Practices-- 320, 388, 464, 428A, 428B, 428C, 533, 587.	Professional Engineer's License when required by State regulation, plus Knowledge of open channel hydraulics, plus Experience, plus References of past work.	n/a <sup>1</sup>  ojt <sup>2</sup> or workshop n/a <sup>1</sup> n/a <sup>1</sup>	n/a <sup>1</sup>  ?? n/a <sup>1</sup> n/a <sup>1</sup>	

ojt <sup>2</sup> or workshop =  
informal NRCS training environment

n/a <sup>1</sup> = No NRCS Training Responsibility

?? = TSP Training Not Readily Available

# Technical Service Provider, Tech Reg Training Inventory

Technical Service	Required Proficiency -----	Method(s) of Training -----		Collaborators to Develop
Category/Practices		NRCS	TSPs	Training for TSPs
183				
Irrigation System	Professional Engineer's License when	n/a <sup>1</sup>	n/a <sup>1</sup>	
(Application)	required by State regulation, plus			
Practices— 450, 441, 443,	Knowledge of Irrigation System Design,	oijt <sup>2</sup> or workshop	??	
447, 442, 449,	Operation, & Maintenance, plus			
533, 610.	Experience, plus	n/a <sup>1</sup>	n/a <sup>1</sup>	
	References of past work; or	n/a <sup>1</sup>	n/a <sup>1</sup>	
	Certification Irrigation Association CID.		IA,s CID	
192				
Irrigation Water Management	Professional Certification; or	n/a <sup>1</sup>	n/a <sup>1</sup>	
Practices— 449.	Five years experience, and	n/a <sup>1</sup>	n/a <sup>1</sup>	
	Knowledge of the science, technology, and	oijt <sup>2</sup> or workshop	??	
	practice for system design, and			
	References of past work; or	n/a <sup>1</sup>	n/a <sup>1</sup>	
	BS+ degree and	n/a <sup>1</sup>	n/a <sup>1</sup>	
	Knowledge of the science, technology, and	oijt <sup>2</sup> or workshop	??	
	practice for system design, and			
	One year experience, and	n/a <sup>1</sup>	n/a <sup>1</sup>	
	References of past work.	n/a <sup>1</sup>	n/a <sup>1</sup>	
205				
Land Shaping (w/ PE)	Professional Engineer's License, plus	n/a <sup>1</sup>	n/a <sup>1</sup>	
Practices— 464, 453, 543,	Experience, plus	n/a <sup>1</sup>	n/a <sup>1</sup>	
466, 462, 566,	Knowledge of the principles of land shaping,	oijt <sup>2</sup> or workshop	??	
572.	reconstruction and reclamation, plus			
	References of past work.	n/a <sup>1</sup>	n/a <sup>1</sup>	
209				
Land Shaping (w/o PE)	Experience, plus	n/a <sup>1</sup>	n/a <sup>1</sup>	
	References of past work.	n/a <sup>1</sup>	n/a <sup>1</sup>	
212				
Land Treatment—Buffer	Agronomic Certification, or	n/a <sup>1</sup>	n/a <sup>1</sup>	
Practices— 332, 589C,	College Degree (BS+), or	n/a <sup>1</sup>	n/a <sup>1</sup>	
386, 393, 422,	5 years experience; plus	n/a <sup>1</sup>	n/a <sup>1</sup>	CTIC
603, 601.	Skill in using RUSLE2, plus	oijt <sup>2</sup> or workshop	??	
	Skill in using WEQ or WEPS, plus	oijt <sup>2</sup> or workshop	??	

oijt <sup>2</sup> or workshop =  
informal NRCS training environment

n/a <sup>1</sup> = No NRCS Training Responsibility

?? = TSP Training Not Readily Available

# Technical Service Provider, Tech Reg Training Inventory

Technical Service Category/Practices	Required Proficiency -----	Method(s) of Training -----		Collaborators to Develop Training for TSPs
		NRCS	TSPs	
	Ephemeral gully treatment & control, plus Skill in using WIN-PST, plus Buffer Plan Development Proficiency, plus References of past work.	ojt <sup>2</sup> or workshop NEDC Course #4b NEDC Course #2 n/a <sup>1</sup>	?? NEDC Course #4b ?? n/a <sup>1</sup>	
222				
Land Treatment—Surface Water Management Practices— 362, 412, 423, 468, 555, 558, 557, 570, 587, 606, 600, 620, 640.	Professional Engineer's license, plus Knowledge of hydrology and other sciences that influence surface water management, management, plus Skill in using RUSLE2, plus Skill in using WIN-PST, plus Experience, plus References of past work.	n/a <sup>1</sup> ojt <sup>2</sup> or workshop  ojt <sup>2</sup> or workshop NEDC Course #4b  n/a <sup>1</sup>	n/a <sup>1</sup> ??  ?? NEDC Course #4b  n/a <sup>1</sup>	ASA, CTIC
231				
Land Treatment—Residue Management and Erosion Practices— 328, 330, 331, 589A, 324, 329B, 329A, 329C, 344, 585, 609.	Professional Certification (ASA), or Agronomic Certification, or College Degree, BS+1 year experience, or 5 years experience; plus Skill in using RUSLE2, plus Skill in using WEQ or WEPS, plus Ephemeral Gully treatment & control, plus Skill in using the Soil Conditioning Index (SCI), plus Knowledge of the NRCS Soil Tillage Intensity Rating (STIR) process, plus Plan Development Proficiency.	n/a <sup>1</sup> n/a <sup>1</sup> n/a <sup>1</sup> n/a <sup>1</sup> ojt <sup>2</sup> or workshop ojt <sup>2</sup> or workshop ojt <sup>2</sup> or workshop ojt <sup>2</sup> or workshop ojt <sup>2</sup> or workshop ojt <sup>2</sup> or workshop ojt <sup>2</sup> or workshop	n/a <sup>1</sup> n/a <sup>1</sup> n/a <sup>1</sup> n/a <sup>1</sup> ?? ?? ?? ?? ?? ?? ??	ASA, CTIC      ASA, CTIC
244				
Land Treatment—Vegetative Land Stabilization Practices— 332, 327, 340, 484, 571.	Professional Agronomic Certification, or College Degree, BS+1 year experience; or 5 years experience; plus Proficiency in planning, design, layout, in- spection, & management of land treatment treatment practices in this category, plus References of past work, plus	n/a <sup>1</sup> n/a <sup>1</sup> n/a <sup>1</sup> ojt <sup>2</sup> or workshop  n/a <sup>1</sup>	n/a <sup>1</sup> n/a <sup>1</sup> n/a <sup>1</sup> ??  n/a <sup>1</sup>	

ojt <sup>2</sup> or workshop =  
informal NRCS training environment

n/a <sup>1</sup> = No NRCS Training Responsibility

?? = TSP Training Not Readily Available



# Technical Service Provider, Tech Reg Training Inventory

Technical Service Category/Practices	Required Proficiency -----	Method(s) of Training -----		Collaborators to Develop Training for TSPs
		NRCS	TSPs	
252				
Manure and Wastewater Handling and Storage Practices— 316, 360, 317, 656, 561, 634, 533, 558, 313, 359, 633, 635.	Professional Engineer's License when required by State regulation, plus Knowledge of the design, operation, and management of manure and wastewater handling & storage facilities, plus Experience, plus References of past work; or Professional Engineer's License when required by State regulation, plus Completion of the University of Tennessee CNMP training course, plus Experience, plus References of past work; or Professional Engineer's License when required by State regulation, plus Completion of the Environmental Management Solutions (EMS) CNMP training course, plus Experience, plus References of past work.	n/a <sup>1</sup>  NEDC Courses 7 & 8  n/a <sup>1</sup> n/a <sup>1</sup> n/a <sup>1</sup>  n/a <sup>1</sup>  n/a <sup>1</sup> n/a <sup>1</sup> n/a <sup>1</sup>  n/a <sup>1</sup>  n/a <sup>1</sup> n/a <sup>1</sup>  n/a <sup>1</sup>  n/a <sup>1</sup> n/a <sup>1</sup>	n/a <sup>1</sup>  NEDC Courses 7 & 8  n/a <sup>1</sup> n/a <sup>1</sup> n/a <sup>1</sup>  n/a <sup>1</sup>  n/a <sup>1</sup> n/a <sup>1</sup> n/a <sup>1</sup>  n/a <sup>1</sup>  n/a <sup>1</sup> n/a <sup>1</sup>  n/a <sup>1</sup>  n/a <sup>1</sup> n/a <sup>1</sup>	
275				
Nutrient Management Practices— 590, 633.	Professional Certification (ASA), and State Certification (when required), or State Certification, or Completion of the University of Tennessee CNMP training course, and State Certification (when required), or Completion of the Environmental Management Solutions (EMS) CNMP training course, and State Certification (when required), or College Degree (BS+) and 3 years experience within past 5 years, and State Certification (when required); plus Skill in using RUSLE2, plus	n/a <sup>1</sup> n/a <sup>1</sup> n/a <sup>1</sup> n/a <sup>1</sup>  n/a <sup>1</sup> n/a <sup>1</sup>  n/a <sup>1</sup> n/a <sup>1</sup>  n/a <sup>1</sup> n/a <sup>1</sup>  n/a <sup>1</sup> n/a <sup>1</sup>  n/a <sup>1</sup> n/a <sup>1</sup>  n/a <sup>1</sup> n/a <sup>1</sup>  o/jt <sup>2</sup> or workshop	n/a <sup>1</sup> n/a <sup>1</sup> n/a <sup>1</sup> n/a <sup>1</sup>  n/a <sup>1</sup> n/a <sup>1</sup>  n/a <sup>1</sup> n/a <sup>1</sup>  n/a <sup>1</sup> n/a <sup>1</sup>  n/a <sup>1</sup> n/a <sup>1</sup>  n/a <sup>1</sup> n/a <sup>1</sup>  ??	ASA, CTIC

o/jt<sup>2</sup> or workshop =  
informal NRCS training environment

n/a<sup>1</sup> = No NRCS Training Responsibility

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# Technical Service Provider, Tech Reg Training Inventory

Technical Service Category/Practices		Required Proficiency -----	Method(s) of Training -----		Collaborators to Develop Training for TSPs
			NRCS	TSPs	
		Skill in using WEQ or WEPS, plus	ojt <sup>2</sup> or workshop	??	
		Knowledge of Ephemeral Gully control, plus	ojt <sup>2</sup> or workshop	??	
		Skill in using the Phosphorus Index (PI), plus	NEDC Course #4b	NEDC Course #4b	
		Skill in using the Leaching Index (LI), plus	NEDC Course #4b	NEDC Course #4b	
		Knowledge of State Requirements.	NEDC Course #4c	??	
293					
Pest Management Practices--		Professional Certification (ASA), and	n/a <sup>1</sup>	n/a <sup>1</sup>	
595.		State License/Certification when required, or	n/a <sup>1</sup>	n/a <sup>1</sup>	
		State Certification/License; plus	n/a <sup>1</sup>	n/a <sup>1</sup>	
		Skill in using RUSLE2, plus	ojt <sup>2</sup> or workshop	??	ASA, CTIC
		Skill in using WEQ or WEPS, plus	ojt <sup>2</sup> or workshop	??	
		Knowledge of Ephemeral Gully Control, plus	ojt <sup>2</sup> or workshop	??	
		Skill in using WIN-PST, plus	NEDC Course #4b	NEDC Course #4b	
		Pest Planning Proficiency, plus	NEDC Course #4a	NEDC Course #4a	
		Knowledge of State Requirements.	NEDC Course #4c	??	
303					
Prescribed Burning Practices--		State Certification, plus	n/a <sup>1</sup>	n/a <sup>1</sup>	
394, 338.		References of past work.	n/a <sup>1</sup>	n/a <sup>1</sup>	
311					
Reservoir or Water Conveyance Sealing Practices--		Professional Engineer's License, plus	n/a <sup>1</sup>	n/a <sup>1</sup>	
428A, 428B, 428C, 521A, 521B, 521C.		Knowledge of the techniques and practices for sealing reservoirs or water conveyance structures, plus	ojt <sup>2</sup> or workshop	??	
		Experience, plus	n/a <sup>1</sup>	n/a <sup>1</sup>	
		References of past work.	n/a <sup>1</sup>	n/a <sup>1</sup>	
313					
Soil Stabilization for Access Roads Practices--		Professional Engineer's License, plus	n/a <sup>1</sup>	n/a <sup>1</sup>	
560, 575, 655, 561, 568.		Knowledge of the techniques and practices used to stabilize soils used for access roads, plus	ojt <sup>2</sup> or workshop	??	
		Experience, plus	n/a <sup>1</sup>	n/a <sup>1</sup>	
		References of past work.	n/a <sup>1</sup>	n/a <sup>1</sup>	
320					
Surface Water Detention / Retention		Professional Engineer's License as required by State regulation; plus	n/a <sup>1</sup>	n/a <sup>1</sup>	

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# Technical Service Provider, Tech Reg Training Inventory

Technical Service Category/Practices	Required Proficiency -----	Method(s) of Training -----		Collaborators to Develop Training for TSPs
		NRCS	TSPs	
Practices-- 397, 402, 348, 356, 432, 398, 410, 552, 436, 447, 378, 350, 587, 606, 638, 658, 659, 657.	Knowledge of the planning, design, layout, function and inspection of surface water detention and retention structures, plus Knowledge of hydrology, earthwork, and soil mechanics, plus Experience, plus References of past work.	oijt <sup>2</sup> or workshop  oijt <sup>2</sup> or workshop  n/a <sup>1</sup> n/a <sup>1</sup>	??  ??  n/a <sup>1</sup> n/a <sup>1</sup>	
330				
Waste Utilization as a Feedstock for Livestock Practices-- 633.	Certification as a Professional Animal Scientist; plus References of past work.	n/a <sup>1</sup>  n/a <sup>1</sup>	n/a <sup>1</sup>  n/a <sup>1</sup>	
334				
Waste Utilization for Energy Production Practices-- 633.	Professional Engineer's License as required by State regulation; plus References of past work.	n/a <sup>1</sup>  n/a <sup>1</sup>	n/a <sup>1</sup>  n/a <sup>1</sup>	
338				
Water Conveyence (Pipelines) Practices-- 432, 430AA, 516, 430BB, 430DD, 430EE, 430CC, 430GG, 430HH, 430FF	Professional Engineer's License as required by State regulation; plus Knowledge of the science, technologies, and practices used to design pipelines, plus Knowledge of hydraulics and how they influence the design and function of pipelines and other closed conduits, plus Experience, plus References of past work, plus Knowledge of the NRCS Field Office Technical Guide.	n/a <sup>1</sup>  oijt <sup>2</sup> or workshop  oijt <sup>2</sup> or workshop  n/a <sup>1</sup> n/a <sup>1</sup> NEDC Course 5a	n/a <sup>1</sup>  ??  ??  n/a <sup>1</sup> n/a <sup>1</sup> NEDC Course 5a	
350				
Water Management (Drainage) Practices-- 310, 554, 482, 582, 532, 533, 587, 606, 607, 608, 620, 630.	Professional Engineer's License as required by State regulation; plus Knowledge of hydraulics and drainage water management; of the science, plus technology, and practices used to design drainage systems, plus Experience, plus	n/a <sup>1</sup>  oijt <sup>2</sup> or workshop  n/a <sup>1</sup>	n/a <sup>1</sup>  ??  n/a <sup>1</sup>	

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# Technical Service Provider, Tech Reg Training Inventory

Technical Service Category/Practices	Required Proficiency -----	Method(s) of Training -----		Collaborators to Develop Training for TSPs
		NRCS	TSPs	
359	References of past work.	n/a <sup>1</sup>	n/a <sup>1</sup>	
Water Supply Facilities Practices— 432, 516, 533, 574, 636, 614, 648.	Professional Engineer's License as required by State regulation; plus Knowledge of the science, technology, and practices for developing water surface and ground water supplies, plus Experience, plus References of past work.	n/a <sup>1</sup> o/jt <sup>2</sup> or workshop n/a <sup>1</sup> n/a <sup>1</sup>	n/a <sup>1</sup> ?? n/a <sup>1</sup> n/a <sup>1</sup>	
367				
Water Well Practices— 642, 351.	Professional Engineer's License as required by State regulation; plus Knowledge of the science, technology, plus and practices for developing water supplies, plus Experience, plus References of past work.	n/a <sup>1</sup> o/jt <sup>2</sup> or workshop n/a <sup>1</sup> n/a <sup>1</sup>	n/a <sup>1</sup> ?? n/a <sup>1</sup> n/a <sup>1</sup>	
375				
Well and Shaft Technology Practices— 457, 532, 533, 630.	Professional Engineer's License as required by State regulation, plus Knowledge of the science, technology, and practices, plus Experience, plus References of past work.	n/a <sup>1</sup> o/jt <sup>2</sup> or workshop n/a <sup>1</sup> n/a <sup>1</sup>	n/a <sup>1</sup> ?? n/a <sup>1</sup> n/a <sup>1</sup>	
382				
Wetlands Practices— 656, 356, 587, 658, 659, 657.	Certification as a Professional Soil Scientist by the American Society of Agronomy, or Professional Engineer's License as required by State regulation; plus Knowledge of the science, technology, and practices for the design, operation, and function of wetlands.	n/a <sup>1</sup> n/a <sup>1</sup> o/jt <sup>2</sup> or workshop	n/a <sup>1</sup> n/a <sup>1</sup> ??	

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# Technical Service Provider, Tech Reg Training Inventory

Technical Service Category/Practices	Required Proficiency -----	Method(s) of Training -----		Collaborators to Develop Training for TSPs
		NRCS	TSPs	
390				
Wetlands (Interdisciplinary)	Certification as a professional wetland	n/a <sup>1</sup>	n/a <sup>1</sup>	
Biological Components	biologist or professional wetland			
Practices— 658, 659, 657.	scientist and 1 year of experience, or	n/a <sup>1</sup>	n/a <sup>1</sup>	
	College Degree (BS+), and	n/a <sup>1</sup>	n/a <sup>1</sup>	
	2 years of experience; plus	n/a <sup>1</sup>	n/a <sup>1</sup>	
	Knowledge of science of wetland systems	ojt <sup>2</sup> or workshop	??	
	and of the interdisciplinary nature of the			
	associated biological and engineering			
	practices, plus			
	References of past work.	n/a <sup>1</sup>	n/a <sup>1</sup>	
401				
Wetlands (Interdisciplinary)	Professional Engineer's License as required	n/a <sup>1</sup>	n/a <sup>1</sup>	
Engineering Components	by State regulation; plus			
Practices— 658, 659, 657.	Knowledge of science of wetland systems	ojt <sup>2</sup> or workshop	??	
	and of the interdisciplinary nature of the			
	associated biological and engineering			
	practices, plus			
	2 years experience, plus	n/a <sup>1</sup>	n/a <sup>1</sup>	
	References of past work.	n/a <sup>1</sup>	n/a <sup>1</sup>	
410				
Wetlands with Associated	Professional Engineer's License as required	n/a <sup>1</sup>	n/a <sup>1</sup>	
Engineering Components	by State regulation; plus			
Practices— 656, 356, 587.	Knowledge of the design, operation, and	ojt <sup>2</sup> or workshop	??	
	maintenance of the practices in this category			
	and how they function in a wetland system,			
	plus			
	Experience, plus	n/a <sup>1</sup>	n/a <sup>1</sup>	
	References of past work.	n/a <sup>1</sup>	n/a <sup>1</sup>	
419				
Wildlife and Fisheries	Certification by a wildlife or related	n/a <sup>1</sup>	n/a <sup>1</sup>	
Practices— 647, 396, 422,	professional organization, or			
643, 390, 395,	College Degree (BS+) and	n/a <sup>1</sup>	n/a <sup>1</sup>	
645, 644.	References of past work, or	n/a <sup>1</sup>	n/a <sup>1</sup>	
	5 Years Experience and	n/a <sup>1</sup>	n/a <sup>1</sup>	

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# Technical Service Provider, Tech Reg Training Inventory

Technical Service Category/Practices	Required Proficiency -----	Method(s) of Training -----		Collaborators to Develop Training for TSPs
		NRCS	TSPs	
426	References of past work; plus	n/a <sup>1</sup>	n/a <sup>1</sup>	
Wildlife and Fisheries with Engineering Components Practices— 398, 399, 646, 648.	Certification by a wildlife or related professional organization and Professional Engineer's License (as required by State regulation), or Professional Engineer's License as required by State regulation and 5 Years Experience and References of past work, or College Degree (BS+) and 1 year of experience and Professional Engineer's License as required by State regulation and References of past work.	n/a <sup>1</sup> n/a <sup>1</sup> n/a <sup>1</sup> n/a <sup>1</sup> n/a <sup>1</sup> n/a <sup>1</sup> n/a <sup>1</sup>	n/a <sup>1</sup> n/a <sup>1</sup> n/a <sup>1</sup> n/a <sup>1</sup> n/a <sup>1</sup> n/a <sup>1</sup> n/a <sup>1</sup>	
440				

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